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## WATER MANAGEMENT ISSUES

### Realization of the Work Plan of the ISRBC for 2008 – Status Report

No.	ACTIVITY AND OPERATIONAL TASKS	OUTCOMES / STATUS	NEXT STEPS / PROPOSAL / REMARK
<b>1.</b>	<b>DEVELOPMENT of the SAVA RIVER BASIN MANAGEMENT PLAN (SRBMP)</b>		
<b>1.1</b>	<b>CONTINUOUS ACTIVITIES</b>		
1.1.1	Analysis of guidelines and documents of importance for preparation of Sava RBM Plan	Special attention has been given to the ICPDR's activities through direct contacts between the Secretariats and attendance of the meetings of related ICPDR's expert groups (ICPDR RBM EG) on regular basis. Documents prepared by the EC, especially by the DG Environment, are also being continually followed. EEA GIS outputs are also used for the RBM activities. Contact with the UNECE is also maintained in order to gain possible assistance in preparation of the SRBA.	<u>Next steps:</u> Continuation of the activities is planned.  <u>Remark:</u> It is suggested that this activity, as a part of regular job of the Secretariat staff, should be removed from the work plans in following FYs.
1.1.3	Adjustment of the Structure and Road map (Action plan) for the Sava RBM Plan development	Detailed adjustment has not been performed on the document adopted by the PEG RBM. Certain <u>modifications</u> of the deadlines for some activities are made during the work on the Strategy for implementation of the FASRB. The deadlines for the certain activities previously agreed in 2007 have been continuously postponed mainly due to delay in data delivery by the countries.	<u>Next steps:</u> Necessary adjustments of the Structure and Road Map will be made in the FY09 (Q2-Q4). It is assumed that most of still unknown issues related to the implementation of the Sava RBM Plan project should be resolved in the 1 <sup>st</sup> quarter of the FY09, by final definition of the SRBM Plan project activities and its

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			delegation of responsibilities between the two project lines - grant and tender line. The new version of the document shall reflect requirements of the EC in the Sava RBMP project implementation and hopefully reduce the number of assumptions made in the 1 <sup>st</sup> version (spring 2007). Taking into account that it is treated as a “living” document, further adjustments shall be performed on an ad-hoc basis.
<b>1.2</b>	<b>SAVA RIVER BASIN ANALYSIS</b>		
1.2.1	Part I: Sava River Basin overview and general characteristics	<p><u>Outcomes:</u></p> <ul style="list-style-type: none"> <li>- First version has been prepared by the Secretariat and reviewed by the PEG RBM on its 11<sup>th</sup> meeting in March;</li> <li>- Hydrology project for the purposes of the Sava RB Analyses (relevant for Part I and Part III of the Report).</li> </ul> <p><u>Status:</u> In order to prepare the document as complete as possible, the deadlines for the data submission are postponed from 31<sup>st</sup> of January to the end of March. This is general statement which applies for all parts of the Report.</p>	<p><u>Next steps:</u> Next version (upgraded by data delivered in March 2009) shall be prepared by the Secretariat for review on the PEG RBM meeting in April.</p> <p><b><i>Remark: In order to finalize this phase in the preparation of the SRBM Plan, it is concluded that this and the other parts of the report shall be finished on the basis of data delivered until the end of March. Any non delivered (missing) information or data are to be treated as data gap and left for the next steps in preparation of the Plan.</i></b></p>
1.2.2	Part II: Water quality	<p><u>Outcomes:</u></p> <ul style="list-style-type: none"> <li>- Based on the final Sava CARDS project version (January 2008) and the information collected since the Secretariat prepared a major upgrade of the Part II of the SRBA Report: SAVA WQ Draft_8.</li> <li>- Hydromorphology part of the SRBA Report drafted and presented of the workshop on March 23<sup>th</sup>.</li> </ul> <p><u>Status:</u> Data gaps are discussed on the 11<sup>th</sup> PEG RBM meeting (See remark in 1.2.1)</p>	<p><u>Next steps:</u></p> <p>Part II of the SRBA Report: Water quality will be presented on the PEG RBM meeting in April.</p> <p>Final version of the Hydromorphology part of the SRBA Report shall be submitted to the Secretariat by April 12<sup>th</sup> and incorporated in the SRBA Report.</p>

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1.2.3	Part III: Water quantity	<u>Outcomes:</u> Part III: Water quantity has been prepared by the Secretariat and the PEG RBM member from Serbia and discussed on the PEG RBM11.	<u>Next steps:</u> Part III of the SRBA Report: Water quantity is being compiled by the Secretariat and will be presented on the PEG RBM meeting in April. <u>Remark:</u> All missing parts (not submitted by the countries until the agreed deadline) shall be treated as data gaps.
1.2.4	Part IV: Cross-cutting issues and integrated RBM planning	<u>Outcomes:</u> No outcomes.	
1.2.5	Preliminary identification of key Water Management (WM) issues	<u>Outcomes:</u> No outcomes.	
1.2.6	Preparation of GIS maps for the SRB Analysis Report	<u>Outcomes:</u> - The ArcGIS document “Sava GIS” has been prepared by the Secretariat. - The maps for the Sava RB Analysis report are prepared. It consists of GIS data provided by the countries and edited by the Secretariat, as well as of freely available data from various sources such as the ICPDR, EEA, NASA, USGS, etc. <u>Status:</u> Initial list of maps has been prepared by the Secretariat and agreed on the 7 <sup>th</sup> PEG RBM meeting. Current status of the maps preparation has been discussed on the PEG RBM10 (Dec. 2008) and PEG RBM11 (March 2009).	<u>Next steps:</u> The final version of the maps (upgraded by data delivered in March 2009) shall be prepared by the Secretariat for review on the PEG RBM meeting in April.
1.2.7	Addition: Annexes to the Report	<u>Outcomes:</u> - Flood management in the Sava River Basin drafted - Navigation in the Sava River Basin drafted - Hydrology report - Hydromorphology report <u>Status:</u> Missing flood management country report for SI	<u>Next steps:</u> Presentation of the annexes on the PEG RBM meeting in April 2009.
<b>1.3</b>	<b>MONITORING AND ENVIRONMENTAL OBJECTIVES</b>		
1.3.2	Work out on definition of environmental objectives	<u>Outcomes:</u> - Monitoring – collected information on national and transnational monitoring networks in the Sava RB and drafted in the SRBA Report - Environmental objectives – no outcome	<u>Next steps:</u> Presentation of the annexes on the PEG RBM meeting in April 2009

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2.	<b>FLOOD MANAGEMENT</b>		
2.1	<b>INITIAL ACTIVITIES</b>		
2.1.1	Completion of position paper for flood related activities	<u>Outcomes:</u> Draft prepared by the Secretariat.	<u>Next steps:</u> Based on discussion on the PEG FP meeting in March, the final version shall be prepared after the negotiation meeting on the Protocol on flood protection. <u>Remark:</u> Final version shall be mainly based on the solutions and joint actions agreed by the Protocol on Flood protection.
2.1.2	Brief characterisation, review and assessment of the current situation in flood management of the Sava countries	<u>Outcomes</u> - Country assessment reports - Accompanied GIS map of important flood prone areas in the Sava RB <u>Status:</u> Reports: - RS and HR finished and accepted - BA- needs final refinement and translation in English - SI-not submitted yet (end of March 2009) Map prepared	<u>Next steps:</u> - Reports to be prepared by all Sava countries.
2.1.3	Preparation of Structure and Road map (Action programme) for the Sava River Basin Flood Risk Management Plan (FRMP)	<u>Outcomes</u> - The first draft of the Table of Contents for <i>Program for Development of the Flood Risk Management Plan (FRMP) in the Sava River Basin</i> prepared	<u>Next steps:</u> Development of the draft prepared in FY08 <u>Remark:</u> Preparation of the Sava FRMP is initially supported by the PEG FP and included in the Strategy on implementation of the FASRB. Expected adoption of the Protocol on Flood protection by the Parties, in which one of the most important anticipated activities is the preparation of the FRMP, shall secure the common actions on the issue. The PEG FP is preparing necessary inputs for the forthcoming activities. Activity planned to be finished in FY09.

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2.1.4	Data collection activities*  * Not specified in the Work Plan for FY08 but apply for all FP related activities	<u>Outcomes</u> - Database on the main flood management related issues in the Sava RB countries - Summary information (form) compiled by the Secretariat <u>Status:</u> The data are collected by the following forms prepared by the Secretariat: 1. Regulations, institutions and planning form; 2. Levee form; 3. Hydrology, Hydraulics and Mapping form.	<u>Next steps:</u> Updating of summary information for the Sava river basin on an ad hoc basis.  <u>Remark:</u> Outputs of this activity will serve as an input for most of the PEG FP activities, as well as for the chapter on Flood management of the SRBA Report.
<b>2.2</b>	<b>PRELIMINARY FLOOD RISK ASSESSMENT</b>		
2.2.1	Evaluation of risk assessment methodologies in the Sava countries and recommendations for further work	<u>Outcomes</u> - Summary information prepared based on the Sava GIS need assessment and the ICPDR related activity	<u>Next steps:</u> - Ad hoc information exchange on the developments in the Sava countries - Updating of summary information (questionnaire) for the Sava river basin <u>Remark:</u> Continuing activity through the work of the Group on other issues, especially the Protocol and data collection. Will be checked and upgraded if necessary.
<b>2.3.</b>	<b>FLOOD HAZARD AND RISK MAPS</b>		
2.3.1	Flood mapping inventory, evaluation of methodologies and recommendations for further work	<u>Outcomes:</u> See 2.1.2., 2.1.4. and 2.2.1.	<u>Next steps:</u> - Upgrade of information and data already provided and/or delivery of missing data - Updating of summary information for the Sava river basin in FY09
2.3.2	Preparation of the joint flood mapping study	<u>Outcomes:</u> - See 2.1.2, 2.1.4, 2.2.1 and 2.3.1. - In addition, the Secretariat prepared a summary table of the data specifically related to the flood mapping study preparation.	<u>Next steps:</u> - Final assessment of available data - Preparation of the ToR for the study (in cooperation with the USACE) <sup>1</sup> - Presentation of the scope of project to responsible ministries

<sup>1</sup> USACE has been requested to confirm its mode of engagement in the project (March 2009).

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		<p><i>Status:</i> On the 7th PEG FP meeting (July 08), Dr. Kathleen White (USACE ERDC) was present to discuss further preparation of the project proposal for the study.</p>	<p><i>Remark:</i></p> <ul style="list-style-type: none"> <li>- The information from the USACE on their further engagement in this activity is still expected.</li> <li>- The main concern in the assesment of the already collected information on data is about the availability of basic topographic and ortopohoto maps and related DTM (digital terrain models). Most of these data are declared as „not free of charge“ although in possession of mostly state institutes. Taking into account that those data are the most expensive inputs in mapping study, this problem should be solved in FY09.</li> </ul> <p><i>Proposal:</i></p> <ul style="list-style-type: none"> <li>- Meeting with the responsible institutions (who own data, e.g. Geological institutes) to be organized, in order to to discuss the issue and find a way to acquire needed data for free, if and where possible. Otherwise, it will significantly increase the costs of the study.</li> </ul>
<b>2.6</b>	<b>FLOOD FORECASTING AND WARNING</b>		
2.6.1	Assessment of the existing national flood forecasting and warning systems	<p><i>Outcomes:</i></p> <ul style="list-style-type: none"> <li>- Brief assesments included in the received reports from 2.1.2.</li> </ul>	<p><i>Next steps:</i></p> <ul style="list-style-type: none"> <li>- Further work on the issue is expected primarily from the new Ah HMI EG</li> </ul>
2.6.2	Development of the joint or integrated flood forecasting and warning system	<p><i>Status:</i></p> <ul style="list-style-type: none"> <li>- The Secretariat provided information to the NHMSs of the Sava countries on the 1<sup>st</sup> call of the South East Europe Transnational Programme on time. Unfortunately, the proposal was not prepared by the NHMSs.</li> <li>- The Ah HMI EG discussed the issue on its 1<sup>st</sup> meeting and agree</li> </ul>	<p><i>Next steps:</i></p> <ul style="list-style-type: none"> <li>- Preparation of new scope of the project proposal (less than 5 mil Euro)</li> <li>- Preparation of the project proposal for the next call for SEE TP</li> </ul> <p><i>Remark:</i> More active role of the national HMI are needed in successful implementation of this activity</p>

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<b>2.7</b>	<b>OTHER FLOOD RELATED ACTIVITIES</b>		
2.7.1	Support and coordination of all activities in harmonization of methodologies, joint actions and plans of the Sava countries	<u>Status:</u> - Continuing activity under the regular work of the PEG FP	
2.7.3	Promotion of exchange of knowledge with international river basin commissions, scientific and research institutions and associations	<u>Status:</u> - Recent cooperation with the USACE. See 2.3.2.	
2.7.4	Drafting of the flood management chapter of the SRB Analysis Report	<u>Outcomes:</u> - Annex to the Sava RB Analysis report-Flood management in the Sava River Basin <u>Status:</u> See 1.2.7	<u>Next steps:</u> - See 1.2.7
<b>3.</b>	<b>ACCIDENT PREVENTION AND CONTROL</b>		
<b>3.1</b>	<b>JOINT SAVA SURVEY</b>		
3.1.1	Preparation of program and work plan for Joint Sava Survey	The Secretariat works on the establishment of project team for the next call for project proposals within the SEE TCP or similar programs, which will be open in September 2009 tentatively. The following institutions have been identified as possible partners in the project: - Institute Jožef Štefan (SI) - lead partner - Institute Ruđer Bošković, Croatian Waters (HR) - Institute for water from Bijelinja, HEIS (BA) - IBR Siniša Stanković, Institute for biology and ecology, PMF (RS) - Environmental Institute Kos (Slovakia) - Sava Commission – observer.	After opening the call the lead partner will organize the workshop to identify scope and main objectives of the project.
<b>3.2</b>	<b>DEVELOPMENT OF THE INTEGRATED SYSTEM TO EXCHANGE DATA AND INFORMATION ON APC</b>		
3.2.2	Testing of the integrated system to exchange data and information on accident prevention and control	Unannounced tests of the AEWS system were performed in April and November 2008. PIACs had to accomplish two steps: - confirm receipt of the initial message (test of reactivity) - close the incident (test of basic handling of the system)	Next announced test was performed on March 18, 2008. This test was initiated by PIAC 06 (SI). In the test, communications with Expert Units and Decision making Units in SI and HR were tested as well. Results of the test will be discussed on the next PEG APC meeting.

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3.2.3	Analysis of testing of the integrated system to exchange data and information on accident prevention and control	According to the results of the announced and unannounced tests, it has been demonstrated that the AEWS system works according to expectations. All Parties of the FASRB answered to the message within one hour, although it has been noticed many time before that PIAC centers are operational 24/7 only in HR and SI. It has been concluded by the members of PEG APC that the national legal and institutional background has not been developed yet to insure the effective early warning and response in case of emergency situations.	The members of the Sava Commission and the Secretariat should contact relevant authorities in BA and RS to present the importance of the establishment of PIAC centers which should be operational 24/7.
3.2.4	Improvement of the integrated system	The improvement of the integrated system will be made within the WACOSS project (see OTHER ACTIVITIES, issue no. 1.2.1.).	